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(12) United States Patent Hoang

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(54)	BOOMERANG				
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(58)					
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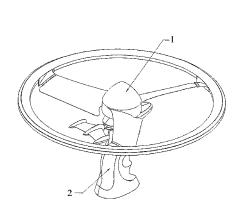
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(57) ABSTRACT

The invention relates to a boomerang that can automatically change both elevation angle α of blades and curve radius r of blades upon the change of rotary speed of blades (12), wherein blades (12) are made of elastically plastic film preferably selected from a group of polyvinyl chloride, polypropylene, polyethylene terephthalate, polystyrene and high impact polystyrene, the material has a specific weight of from about 0.9 g/cm³ to about 1.60 g/cm³ and as thickness from about 0.1 mm to about 1 mm; the ratio between the depth of the rear groove and blade width is from about 1/7 to about 6/7; the ratio between depth of the front groove and blade width is from about 0 to about 3/7; the elevation angle α 0 is from about 10° to about 45° ; the initial curve radius r_0 of the blades is longer or equal to 1/5 of the radius R of said ring (13); the ratio between the total area of said blades and the area of a circle defined by said ring (13) is from about % to about 38%.

18 Claims, 5 Drawing Sheets



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